

8

6 et 9  
 5 et 12  
 2 et 24  
 10 et 22 → 10, 14, 22  
 → 14

10

$$1295 - .74 = 1.21$$

$$\begin{array}{r} 37 \\ \times 24 \\ \hline \end{array} = \begin{array}{r} 888 \\ \hline \end{array}$$

$$35 + .988 = .33$$

$$14 \times 37 \approx 800 \quad | \quad 35 \times 37 = 1295$$

$$24 \times 37 = 888$$

$$1295 - 174 = 1121 \leftarrow$$

$$\begin{array}{r} : \\ + 24 \\ \hline 35 + 198 \quad 233 \end{array}$$

$$1295 - 274 = 1021$$

$$\begin{array}{r} + 24 \\ \hline 35 + 298 \quad 333 \end{array}$$



23. impair.

(11)

1 2 3 5 8 13 21 (42)

8 13 26 non

5 10 15 25 non

15 30 non

10 20

3 6 9 15 24

30

9 18 27

36

6 12 18 30

48

24

1 2 4 6 10 16 26 (42)

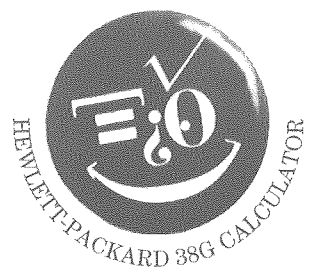
20

6 12

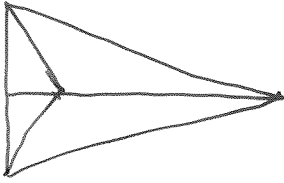
4 8 12 20

24

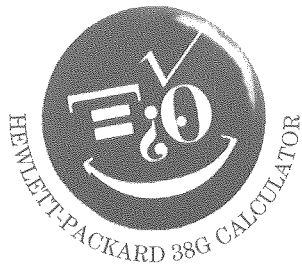
8 16



12



$$(90 - \alpha/2) \times 2 = 180 - 117 = 63?$$



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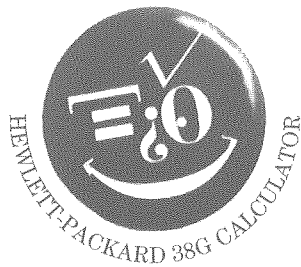
(12)

$$\begin{aligned}\widehat{BMC} &= \widehat{BMA'} + \widehat{A'MC} \\ &= 180 - \widehat{CBM} - \widehat{BCM} \\ &= 180 - \widehat{MBA} - \widehat{MCA} \\ &= 180 - (90 - \widehat{BMC'}) - (-) \\ &= \widehat{BMC'} + \widehat{CMB'}\end{aligned}$$

$$\widehat{B'MC'} = 360 - 2\widehat{BMC}$$

~~$$\widehat{A} = \widehat{AMB'} + \widehat{AMC'}$$~~

$$\begin{aligned}\widehat{A} &= 180 - (\widehat{AMB'} + \widehat{AMC'}) \\ &= 180 - \widehat{B'MC'} \\ &= 2\widehat{BMC} - 180 \\ &= 234 - 180 = \boxed{54}\end{aligned}$$



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(14)

Group: 35000 km

$$\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$$

$$\frac{24}{7} \mu \rightarrow 4 \text{ pneus.}$$

$$\frac{24}{7} \times \frac{5}{4} = \frac{30}{7} \mu$$

300 000 | 7  
20      42857  
60  
40  
50  
1



(15)

RJ: VC: 10 min

P: 1 h

VTT: 15 min.

\_\_\_\_\_ in min:



① cont:  $10x + 60(1-x) = 60 - 50x$

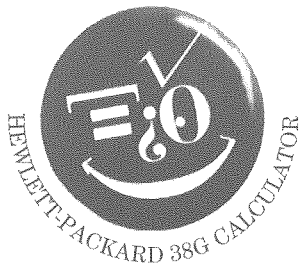
② return:  $10x + 60x + 15 = 70x + 15$

$$120x = 45 \rightarrow x = \frac{45}{120}$$

$$60 - \frac{5 \times 45}{12} = 60 - \frac{225}{12} = 60 - 20 + \frac{15}{12} = 41 + \frac{3}{12} \\ = 41 + \frac{1}{4}$$

~~7h~~  $\frac{7 \times 45}{12} + 15 = \frac{105}{4} + 15 = 26 + 15 + \frac{1}{4}$

7h 18m 45s



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(16)

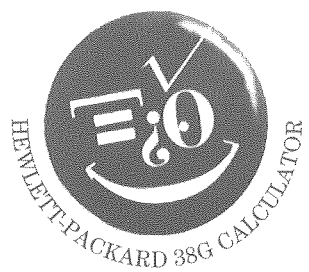
0  
 4 1 14 35 64  
 5 13 21 29  
 8 8 8  
 0

$$484 \times 4 = 1936$$

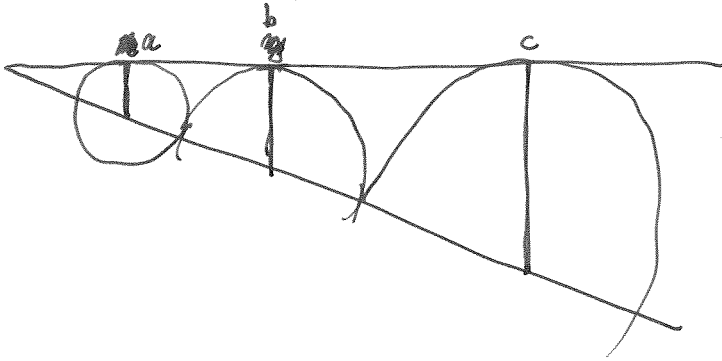
$$\begin{aligned}
 P(n) &= -4 + 5n + 4n(n-1) \\
 &= 4n^2 + n - 4
 \end{aligned}$$

$$P(22) = 1936 + 18 = 1954$$

Ord: 22  $\rightarrow$  (-8, 22)  
 Abs: -8



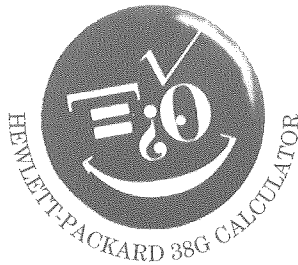
(17)



$$\frac{c}{a} = 1,69$$

$$\frac{b}{a} = 1,3? \quad (\text{homoth.})$$

$$\begin{array}{r} 1,69 \\ \times 1,3 \\ \hline 2,197 \end{array} \rightarrow \underline{\underline{2,20}}$$



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18

$$\frac{h}{25+x} = \frac{h-25}{25} = \frac{25}{x} = r$$

$$xh - 25x = 25^2 \quad \underline{xh = 25(x+25)}$$

~~$$xh + 25h - 25(25+x) = 0$$~~

~~$$\frac{a}{24} = \frac{c}{b} = \frac{24}{e} = \frac{h}{c+d+24}$$~~

~~$$(25+x)h = \frac{25(x+25)^2}{x}$$~~

$$\frac{c}{24} = \frac{h}{e+f} = \frac{h}{25+x} \Rightarrow c$$

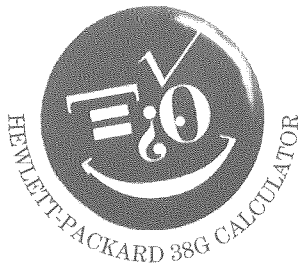
d  
↑

$$\frac{b}{c} = \frac{24}{a}$$

$$\frac{a}{24} = \frac{h}{c+d+24}$$

$$\frac{d}{24} = \frac{x+25}{h}$$

$$a+b=h$$



18 suite

$$c = 24n$$

$$d = \frac{24}{n}$$

$$(c+d+24)^2 = h^2 + (x+25)^2 = (x+25)^2(n^2+1)$$
$$= 25^2 \left(\frac{1}{n} + 1\right)^2 (n^2+1)$$

$$24^2 \left(n + 1 + \frac{1}{n}\right)^2 = \quad "$$

$$24^2 (n^2 + n + 1)^2 = 25^2 (n+1)^2 (n^2+1)$$

$$24^2 (n^4 + 2n^3 + 3n^2 + 2n + 1)$$

$$= 25^2 (n^4 + 2n^3 + 2n^2 + 2n + 1)$$

$$49(n^4 + 2n^3 + 2n + 1)$$

$$- 478n^2 = 0$$

$$\begin{matrix} (n^2+2n+1) \\ (n^2+1) \end{matrix}$$

$$\begin{matrix} 121 \\ 121 \end{matrix}$$

$$25^2 - 24^2 = 49$$

$$2 \times 625 - 3 \times 576$$

$$1250 - 1728$$

$$- 478$$

$$49\left(n^2 + \frac{1}{n^2}\right) + 98\left(n + \frac{1}{n}\right) - 478 = 0$$

$$\left(n + \frac{1}{n}\right)^2 =$$

$$n^2 + \frac{1}{n^2} + 2$$

$$X = n^2 + \frac{1}{n^2}$$

$$49(X^2 - 2) + 98X - 478 = 0$$



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18 suite 2

$$49x^2 + 98x - 576 = 0$$

Arithm

$$x^2 + 2x - k = 0 \quad \text{avec } k = \frac{576}{49}$$

$$\Delta' = 1 + k = \frac{625}{49}$$

$$x = -1 \pm \sqrt{\Delta'}$$
$$= -1 + \frac{25}{7} = \frac{18}{7}$$

$$\boxed{n + \frac{1}{n} = \frac{18}{7}}$$

987

$$\frac{k(25+x)}{2} ?$$

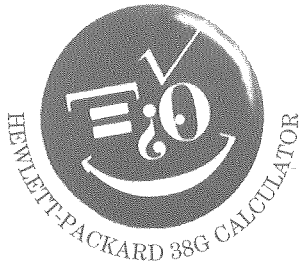
||

$$\frac{n(25+x)^2}{2}$$

2

n

$$\frac{25^2}{2} n \left(1 + \frac{1}{n}\right)^2 = \boxed{\frac{25^2}{2} \frac{18^2}{7^2} n ?}$$



18 suite 3

$$n^2 - \frac{18}{7}n + 1 = 0$$

$$\Delta' = \left(\frac{9}{7}\right)^2 - 1 = \frac{81}{49} - \frac{49}{49} = \frac{32}{49}$$

$$n = \frac{9}{7} \pm \frac{4}{7}\sqrt{2}$$

$$S = 625 \times 162 \frac{9 \pm 4\sqrt{2}}{7^3}$$

$\sqrt{2} \approx 1,414$

200  
100  
400

1,414  
24  
x 6  
96  
28.

49  
x 7  
343

686  
1029

343 x 9  
3087

343 x 5  
1715

625 ~~162~~

x 162  
101250

$$4\sqrt{2} = 5,656$$

(14,656  
3,344

101250 | 343  
- 686 | 295  
3265  
- 3087  
1780



$$295 \times 3,344$$

$$\begin{array}{r} 885 \\ 885 \\ 1180 \\ \hline 9849 \end{array}$$

$$\begin{array}{r} 590 \\ 1180 \\ \hline 1770 \end{array}$$

$$\begin{array}{r} 1180 \\ 590 \\ \hline 985 \end{array}$$

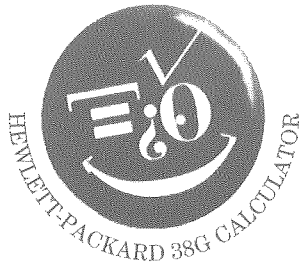
$$1770$$

$$\begin{array}{r} 1140 \\ 295 \\ \hline 295 \times 5 \\ 1475 \end{array}$$

$$295 \times 14,656$$

$$\begin{array}{r} 2950 \\ 1180 \\ 1770 \\ 1475 \\ \hline 43217 \end{array}$$

$$4322$$



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